PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MLC/JPS/2707PC			FOR FURTHER AC	TION	See Form PCT/IPEA/416
1	International application No. PCT/GB2004/005445		International filing date (d 22.12.2004	lay/month/year)	Priority date (day/month/year) 23.12.2003
	national Patent Classi 3L59/00, C08G2/38		ational classification and IPC A61L27/18	C .	
	icant ITH & NEPHEW,	PLC et al.		·	
1.	This report is the i	international pre rticle 35 and tra	eliminary examination rep nsmitted to the applicant	ort, established by the according to Article	his International Preliminary Examining 36.
2.	This REPORT co	nsists of a total	of 5 sheets, including thi	s cover sheet.	
3. This report is also accompanied by ANNEXES, comprising:					
			to the International Burea		
	and <i>l</i> or Admin	sheets containi nistrative Instruc	ing rectifications authoriz tions).	ed by this Authority (amended and are the basis of this report (see Rule 70.16 and Section 607 of the
	beyon	s which superse Id the disclosure emental Box.	ede earlier sheets, but wh e in the international appl	ich this Authority cor ication as filed, as in	nsiders contain an amendment that goes dicated in item 4 of Box No. I and the
	sequence	listing and/or ta	Bureau only) a total of (in bles related thereto, in coe Listing (see Section 802	omputer readable for	ber of electronic carrier(s)) , containing a m only, as indicated in the Supplemental e lnstructions).
4.	This report conta	ins indications r	elating to the following ite	ems:	
	☑ Box No. I	Basis of the op	oinion	•	
	☐ Box No. II	Priority			
	☐ Box No. III	Non-establishr	nent of opinion with rega	rd to novelty, inventiv	ve step and industrial applicability
	☐ Box No. IV	Lack of unity o			
	⊠ Box No. V	applicability; ci	tations and explanations) with regard to nove supporting such stat	elty, inventive step or industrial tement
	☐ Box No. VI	Certain docum		• •	·
	☐ Box No. VII		s in the international appl		
	☐ Box No. VIII	Certain observ	rations on the internation	al application	
Dat	te of submission of the	e demand		Date of completion of	f this report
30	30.05.2005			24.01.2006	
Name and mailing address of the international preliminary examining authority:				Authorized Officer	to to the section of
-	European NL-2280 H	ratent Οπιce - P.! {V Rijswijk - Pays	B. 5818 Patentlaan 2 Bas	Schlicke, B	sevels:
		IV Rijswijk - Pays 0 340 - 2040 Tx: 3 70 340 - 3016	31 651 epo nl	Telephone No. +31 7	70 340-
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/005445

	Box No. I Basis of the report	
1.	With regard to the language, this filed, unless otherwise indicated	s report is based on the international application in the language in which it was under this item.
	☐ This report is based on transwhich is the language of a tr	slations from the original language into the following language, anslation furnished for the purposes of:
		ler Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)
2.	With regard to the elements * of have been furnished to the receive report as "originally filed" and are	the international application, this report is based on (replacement sheets which iving Office in response to an invitation under Article 14 are referred to in this e not annexed to this report):
	Description, Pages	
	1-38	as originally filed
	Claims, Numbers	
	1-31	as originally filed
	Drawings, Sheets	
ŧ	1/6-6/6	as originally filed
	☐ a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing
3.	☐ The amendments have resu	ulted in the cancellation of:
	☐ the description, pages☐ the claims, Nos.	
	☐ the drawings, sheets/figs☐ the sequence listing (sp	
	\Box any table(s) related to so	
4.	☐ This report has been estable had not been made, since they Supplemental Box (Rule 70.2(c)	ished as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the)).
	☐ the description, pages☐ the claims, Nos.☐ the drawings, sheets/figs☐ the sequence listing (sp	ecify):
	any table(s) related to s	equence listing (<i>specily)</i> :
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3-6,9-31

No:

Claims

1,2,7,8

Inventive step (IS)

Yes: Claims

3-6,9-31

Claims No:

1,2,7,8

Industrial applicability (IA)

Claims Yes:

1-31

Claims No:

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following documents:
 - D1: EP-A-0 803 521 (NIPPON SHOKUBAI CO., LTD) 29 October 1997
 - D2: GB 807 589 A (E. I. DU PONT DE NEMOURS) 21 January 1959
 - D3: WO 99/22770 A (SHEARWATER POLYMERS) 14 May 1999
 - D4: US-A-5 407 445 (TAUTVYDAS ET AL) 18 April 1995
- Document D1 teaches (claims 1,2,8; page 5, lines 28-37; page 12, lines 14-16) biodegradable block copolymers comprising polyalkylene glycol residues connected by polyacetal linkages. The polyols may comprise up to 500 repeating units which should result in molecular weights of more than 4000 Daltons.
 - Hence, the subject-matter of present claims 1,2,7 and 8 lacks novelty in view of this teaching (Article 33(2) PCT).
- Document D2 teaches (claims 1,2; page 2, lines 78-81) block copolymers comprising polytetramethylene glycol residues having a molecular weight of more than 7000 connected by polyoxymethylene units.
 - Hence, the subject-matter of present claims 1,2,7 and 8 lacks novelty in view of this teaching (Article 33(2) PCT).
- Document D3 teaches (claims 1,3-5; examples; page 7, line 9) pharmaceutical compositions of biodegradable block copolymers comprising PEG segments, polyol segments, and acetal linkages. D3 fails to teach the molecular weights of the polyol or PEG segments.
 - Hence, the subject-matter of present claims 1-31 appears novel in view of this teaching (Article 33(2) PCT).
- Document D4 teaches (claim 1) filler for protheses comprising biodegradable polyoxyethylene-polyoxypropylene block copolymers. The polyoxypropylene segments have molecular weights of up to 6000 Daltons. The segments are not

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connected via acetal linkages.

Hence, the subject-matter of present claims 1-31 appears novel in view of this teaching (Article 33(2) PCT).

None of the available prior art documents discloses or suggests alone or in combination with another teaching the embodiments of dependent claims 3-6 and 9-31. These claims therefore appear to comply with the requirements of Article 33 PCT.